OBSERVATIONS & RECOMMENDATIONS

After reviewing data collected from **Loon Pond, Gilmanton,** the program coordinators have made the following observations and recommendations.

We congratulate your group on sampling the deep spot twice and the tributaries three times this year! We encourage your group to conduct additional deep spot sampling events in the future. Typically, we recommend that monitoring groups sample three times per summer (once in **June**, **July**, and **August**). We understand that the number of sampling events you decide to conduct per summer will depend upon volunteer availability, and your group's goals and funding availability. However, with a limited amount of data it is difficult to determine accurate and representative water quality trends. Since weather patterns and activity in the watershed can change throughout the summer, from year to year, and even from hour to hour during a rain event, it is a good idea to sample the pond at least once per month during the summer.

If you are having difficulty finding volunteers to help sample or to travel to one of the laboratories, please call the VLAP Coordinator and DES will help you work out an arrangement.

We encourage your monitoring group to formally participate in the DES Weed Watchers program, a volunteer program dedicated to monitoring lakes and ponds for the presence of exotic aquatic plants. This program only involves a small amount of time during the summer months. Volunteers survey their waterbody once a month from May through **September**. To survey, volunteers slowly boat, or even snorkel, around the perimeter of the waterbody and any islands it may contain. Using the materials provided in the Weed Watcher kit, volunteers look for any species that are suspicious. After a trip or two around the waterbody, volunteers will have a good knowledge of its plant community and will immediately notice even the most subtle changes. If a suspicious plant is found, the volunteers immediately send a specimen to DES for identification. If the plant specimen is an exotic species, a biologist will visit the site to determine the extent of the problem and to formulate a management plan to control the nuisance infestation. Remember that early detection is the key to controlling the spread of exotic plants.

If you would like to help protect your lake or pond from exotic plant infestations, contact Amy Smagula, Exotic Species Program Coordinator, at 271-2248 or visit the Weed Watchers website at www.des.nh.gov/organization/divisions/water/wmb/exoticspecies/weed _watcher.htm.

FIGURE INTERPRETATION

CHLOROPHYLL-A

Figure 1 and Table 1: Figure 1 in Appendix A shows the historical and current year chlorophyll-a concentration in the water column. Table 1 in Appendix B lists the maximum, minimum, and mean concentration for each sampling year that the pond has been monitored through VLAP.

Chlorophyll-a, a pigment found in plants, is an indicator of the algal abundance. Algae (also known as phytoplankton) are typically microscopic, chlorophyll producing plants that are naturally occurring in lake ecosystems. The chlorophyll-a concentration measured in the water gives biologists an estimation of the algal concentration or lake productivity. The median summer chlorophyll-a concentration for New Hampshire's lakes and ponds is 4.58 mg/m³.

The current year data (the top graph) show that the chlorophyll-a concentration *decreased slightly* from **June** to **July**.

The historical data (the bottom graph) show that the **2008** chlorophyll-a mean is *much less than* the state and similar lake medians, and is the lowest concentration measured since monitoring began. For more information on the similar lake median, refer to Appendix F.

Overall, the statistical analysis of the historical data (the bottom graph) shows that the mean annual chlorophyll-a concentration has **not significantly changed** since monitoring began. Specifically, the mean annual chlorophyll-a concentration has **fluctuated between approximately 2.2 and 4.8 mg/m³**, but has **not continually increased or decreased** since **1991**. Please refer to Appendix E for a detailed statistical analysis explanation and data print-out.

While algae are naturally present in all lakes and ponds, an excessive or increasing amount of any type is not welcomed. In freshwater lakes and ponds, phosphorus is the nutrient that algae typically depend upon for growth in New Hampshire lakes. Algal concentrations may increase as nonpoint sources of phosphorus from the watershed increase, or as in-lake phosphorus sources increase. Therefore, it is extremely important for volunteer monitors to

continually educate all watershed residents about management practices that can be implemented to minimize phosphorus loading to surface waters.

TRANSPARENCY

Figure 2 and Tables 3a and 3b: Figure 2 in Appendix A shows the historical and current year data for transparency with and without the use of a viewscope. Table 3a in Appendix B lists the maximum, minimum and mean transparency data without the use of a viewscope and Table 3b lists the maximum, minimum and mean transparency data with the use of a viewscope for each year that the pond has been monitored through VLAP.

Volunteer monitors use the Secchi disk, a 20 cm disk with alternating black and white quadrants, to measure how far a person can see into the water. Transparency, a measure of water clarity, can be affected by the amount of algae and sediment in the water, as well as the natural lake color of the water. **The median summer transparency for New Hampshire's lakes and ponds is 3.2 meters.**

The current year data (the top graph) show that the non-viewscope inlake transparency *decreased slightly* from **June** to **July**.

The historical data (the bottom graph) show that the **2008** mean non-viewscope transparency is *greater than* the state median and is *slightly greater than* the similar lake median. Please refer to Appendix F for more information about the similar lake median.

The current year data (the top graph) show that the viewscope in-lake transparency was *greater than* the non-viewscope transparency on the **July** sampling event. The transparency was **not** measured with the viewscope on the **June** sampling event. As discussed previously, a comparison of transparency readings taken with and without the use of a viewscope shows that the viewscope typically increases the depth to which the Secchi disk can be seen into the lake, particularly on sunny and windy days. We recommend that your group measure Secchi disk transparency with and without the viewscope on each sampling event.

It is important to note that viewscope transparency data are not compared to a New Hampshire median or similar lake median. This is because lake transparency with the use of a viewscope has not been historically measured by DES. At some point in the future, the New Hampshire and similar lake medians for viewscope transparency will be calculated and added to the appropriate graphs.

Overall, the statistical analysis of the historical data (the bottom graph) shows that the mean annual in-lake non-viewscope transparency has **not significantly changed** (either *increased* or *decreased*) since monitoring began. Specifically, the in-lake transparency has remained **relatively stable**, **ranging between approximately 4.38 and 5.97 meters** since **1991**. Please refer to Appendix E for the statistical analysis explanation and data print-out.

Typically, high intensity rainfall causes sediment-laden stormwater runoff to flow into surface waters, thus increasing turbidity and decreasing clarity. Efforts to stabilize stream banks, lake and pond shorelines, disturbed soils within the watershed, and especially dirt roads located immediately adjacent to the edge of tributaries and the lake or pond should continue on an annual basis. Guides to best management practices that can be implemented to reduce, and possibly even eliminate, nonpoint source pollutants, are available from DES upon request.

TOTAL PHOSPHORUS

Figure 3 and Table 8: The graphs in Figure 3 in Appendix A show the amount of epilimnetic (upper layer) phosphorus and hypolimnetic (lower layer) phosphorus; the inset graphs show current year data. Table 8 in Appendix B lists the annual maximum, minimum, and median concentration for each deep spot layer and each tributary since the pond has been sampled through VLAP.

Phosphorus is typically the limiting nutrient for vascular aquatic plant and algae growth in New Hampshire's lakes and ponds. Excessive phosphorus in a lake or pond can lead to increased plant and algal growth over time. The median summer total phosphorus concentration in the epilimnion (upper layer) of New Hampshire's lakes and ponds is 12 ug/L. The median summer phosphorus concentration in the hypolimnion (lower layer) is 14 ug/L.

The current year data for the epilimnion (the top inset graph) show that the phosphorus concentration *decreased* from **June** to **July**.

The historical data show that the **2008** mean epilimnetic phosphorus concentration is *less than* the state median and is *slightly less than* the similar lake median. Refer to Appendix F for more information about the similar lake median.

The current year data for the hypolimnion (the bottom inset graph) show that the phosphorus concentration *decreased* from **June** to **July**.

Overall, the statistical analysis of the historical data shows that the phosphorus concentration in the epilimnion (upper layer) has **not significantly changed** since monitoring began. Specifically, the mean epilimnetic phosphorus concentration has **remained relatively stable between approximately 4 and 9 ug/L**, but has **not continually increased or decreased** since **1991**. Please refer to Appendix E for the detailed statistical analysis explanation and data print-out.

Overall, the statistical analysis of the historical data shows that the phosphorus concentration in the hypolimnion (lower layer) has **significantly increased** (meaning **worsened**) on average at a rate of approximately **4.090 percent** per year during the sampling period **1996** to **2008**. Please refer to Appendix E for the statistical analysis explanation and data print-out.

One of the most important approaches to reducing phosphorus loading to a waterbody is to continually educate watershed residents about the watershed sources of phosphorus and how excessive phosphorus loading can negatively impact the ecology and the recreational, economical, and ecological value of lakes and ponds.

TABLE INTERPRETATION

> Table 2: Phytoplankton

Table 2 in Appendix B lists the current and historical phytoplankton and/or cyanobacteria observed in the pond. Specifically, this table lists the three most dominant phytoplankton and/or cyanobacteria observed in the sample and their relative abundance in the sample.

The dominant phytoplankton and/or cyanobacteria observed in the **July** sample were **Chrysosphaerella** (**Golden-Brown**), **Asterionella** (**Diatom**), and **Dinobryon** (**Golden-Brown**).

Phytoplankton populations undergo a natural succession during the growing season. Please refer to the "Biological Monitoring Parameters" section of this report for a more detailed explanation regarding seasonal plankton succession. Diatoms and golden-brown algae populations are typical in New Hampshire's less productive lakes and ponds.

> Table 4: pH

Table 4 in Appendix B presents the in-lake and tributary current year and historical pH data.

pH is measured on a logarithmic scale of 0 (acidic) to 14 (basic). pH is important to the survival and reproduction of fish and other aquatic life. A pH below 6.0 typically limits the growth and reproduction of fish. A pH between 6.0 and 7.0 is ideal for fish. The median pH value for the epilimnion (upper layer) in New Hampshire's lakes and ponds is **6.6**, which indicates that the state surface waters are slightly acidic. For a more detailed explanation regarding pH, please refer to the "Chemical Monitoring Parameters" section of this report.

The mean pH at the deep spot this year ranged from **6.03** in the hypolimnion to **6.56** in the epilimnion, which means that the water is **slightly acidic**.

It is important to point out that the hypolimnetic (lower layer) pH was *lower (more acidic)* than in the epilimnion (upper layer). This increase in acidity near the pond bottom is likely due to the decomposition of organic matter and the release of acidic by-products into the water column.

Due to the state's abundance of granite bedrock in the state and acid deposition received from snowmelt, rainfall, and atmospheric particulates, there is little that can be feasibly done to effectively increase pond pH.

> Table 5: Acid Neutralizing Capacity

Table 5 in Appendix B presents the current year and historical epilimnetic ANC for each year the pond has been monitored through VLAP.

Buffering capacity (ANC) describes the ability of a solution to resist changes in pH by neutralizing the acidic input. The median ANC value for New Hampshire's lakes and ponds is **4.8 mg/L**, which indicates that many lakes and ponds in the state are at least "moderately vulnerable" to acidic inputs. For a more detailed explanation about ANC, please refer to the "Chemical Monitoring Parameters" section of this report.

The mean acid neutralizing capacity (ANC) of the epilimnion (upper layer) was **4.4 mg/L**, which is **approximately equal to** the state median. In addition, this indicates that the pond is **moderately vulnerable** to acidic inputs.

> Table 6: Conductivity

Table 6 in Appendix B presents the current and historical conductivity values for tributaries and in-lake data. Conductivity is the numerical expression of the ability of water to carry an electric current, which is determined by the number of negatively charged

ions from metals, salts, and minerals in the water column. The median conductivity value for New Hampshire's lakes and ponds is **38.4 uMhos/cm**. For a more detailed explanation, please refer to the "Chemical Monitoring Parameters" section of this report.

The mean annual epilimnetic conductivity at the deep spot this year was **89.26 uMhos/cm**, which is *greater than* the state median.

A shoreline conductivity survey was conducted during the **July** sampling event to help identify source areas or conductivity "hot spots". Shoreline conductivity ranged from **90.9 to 94.5 uMhos/cm**. The survey did not identify specific source areas; however conductivity values increased slightly traveling counter-clockwise around the pond. The increase might coincide with roadways and residential volume.

Spring runoff sampling was conducted to identify if road salting is contributing to elevated conductivity levels in Bertrand Brook and the pond. Bracket sampling was conducted along Bertrand Brook and Loon Pond Road. A seasonal inlet, Austin Brook, was sampled, and a permanent inlet, Gardner Cove Inlet, was added to the monitoring program.

Bracket sampling of Bertrand Brook identified Bertrand Brook **Seasonal Upstream** station as a source of elevated conductivity. This site was sampled at the confluence of two seasonal flows before they entered a culvert that eventually discharges to Bertrand Brook. The seasonal flow along Loon Pond Road captures runoff and snowmelt from Rt. 107 and Loon Pond Road. Rt. 107 is salted during the winter months, and a sand/salt mixture is used along Loon Pond Road. We recommend your monitoring group approach the Town Road Agent to discuss implementing a low salt zone, and/or using alternative de-icing materials, specifically along Loon Pond Road. Please keep in mind that sanding also negatively impacts stream and lake quality. Sand can smother stream macroinvertebrates and habitat, create sediment plumes along pond shorelines creating ideal soils for aquatic plant growth, and eventually lead to increased phosphorus concentrations. When discussing de-icing alternatives, please take all environmental factors into consideration, and choose the best option for your pond.

We also recommend that your monitoring group continue to conduct spring runoff sampling at Bertrand Brook and the Bertrand Brook Seasonal Upstream stations.

Spring runoff sampling of Austin Brook and Gardner Cove Inlet on the 4/30/2008 sampling event identified *elevated* conductivity levels (140.1 and 106.3 uMhos/cm). Gardner Cove Inlet also experienced

elevated conductivity levels (236, 232, 106.6 uMhos/cm) on subsequent sampling events.

We recommend that your monitoring group continue to conduct spring runoff and rain event sampling along these tributaries to help identify the sources.

For a detailed explanation on how to conduct rain event sampling and stream surveys, please refer to the 2002 VLAP Annual Report special topic article, which is posted on the VLAP website at

http://www.des.nh.gov/organization/divisions/water/wmb/vlap/categories/publications.htm, or contact the VLAP Coordinator.

> Table 8: Total Phosphorus

Table 8 in Appendix B presents the current year and historical total phosphorus data for in-lake and tributary stations. Phosphorus is the nutrient that limits the algae's ability to grow and reproduce. Please refer to the "Chemical Monitoring Parameters" section of this report for a more detailed explanation.

The phosphorus concentrations in **Bertrand Brook Seasonal Upstream, Gardener Cove Inlet, and Outlet** were *relatively low* this year. However, we recommend that your monitoring group sample the major tributaries to the pond during snow-melt and periodically during rainstorms to determine if the phosphorus concentration is *elevated* in the tributaries during these times. Typically, the majority of nutrient loading to a pond occurs in the spring during snow-melt and during intense rainstorms that cause soil erosion and surface runoff and within the watershed.

The total phosphorus concentration was *elevated* (34 ug/L) in **Austin Brook** during the spring runoff sampling. We recommend that your monitoring group conduct a stream survey and rain event sampling along this tributary so that we can determine what may be causing the elevated concentrations.

The total phosphorus concentration was *elevated* (25, 24 and 55 ug/L) in Bertrand Brook on the 4/30/2008, 7/29/2008 and 9/30/2008 sampling events. Rainfall was noted prior to the April and September sampling events and likely washed phosphorus-laden stormwater into the tributary. We recommend that your monitoring group continue to conduct rain event sampling along this tributary so that we can determine what may be causing the elevated concentrations.

For a detailed explanation on how to conduct rain event sampling and stream surveys, please refer to the 2002 VLAP Annual Report special topic article, which is posted on the VLAP website at

http://www.des.nh.gov/organization/divisions/water/wmb/vlap/c

ategories/publications.htm, or contact the VLAP Coordinator.

The total phosphorus concentration in **Varney Brook** was **slightly elevated** (**22 and 18 ug/L**) on the **6/27/2008 and 7/29/2008** sampling events. The turbidity of the sample was also **elevated** (**5.85 NTUs**) on the **July** sampling event, which suggests that the stream bottom may have been disturbed while sampling or that erosion is occurring in the watershed. It was also noted that vegetation was removed within the Varney Brook riparian buffer zone. Removing rooted vegetation disturbs and erodes soils, and decreases nutrient uptake leading to turbid tributary conditions and potentially elevated nutrient levels. We recommend re-planting native vegetation along Varney Brook to stabilize stream banks and decrease nutrient loading.

Table 9 and Table 10: Dissolved Oxygen and Temperature Data
Table 9 in Appendix B shows the dissolved oxygen/temperature
profile(s) collected during 2008. Table 10 in Appendix B shows the
historical and current year dissolved oxygen concentration in the
hypolimnion (lower layer). The presence of sufficient amounts of
dissolved oxygen in the water column is vital to fish and amphibians
and bottom-dwelling organisms. Please refer to the "Chemical
Monitoring Parameters" section of this report for a more detailed
explanation.

The dissolved oxygen concentration was greater than **100 percent** saturation at **5** and **6** meters at the deep spot on the **July** sampling event. Wave action from wind can also dissolve atmospheric oxygen into the upper layers of the water column. Layers of algae can also increase the dissolved oxygen in the water column, since oxygen is a by-product of photosynthesis. Considering that the depth of sunlight penetration into the water column was approximately **5.5** meters on this sampling event, as shown by the Secchi disk transparency depth, and that the metalimnion, the layer of rapid decrease in water temperature and increase in water density where algae typically congregate, was located between approximately **5** and **8** meters, we suspect that an abundance of algae in the metalimnion caused the oxygen super-saturation.

The dissolved oxygen concentration was *lower in the hypolimnion* (*lower layer*) than in the epilimnion (upper layer) at the deep spot on the **July** sampling event. As stratified ponds age, and as the summer progresses, oxygen typically becomes **depleted** in the hypolimnion by bacterial decomposition. Specifically, the reduction of hypolimnetic oxygen is primarily a result of biological organisms using oxygen to break down organic matter, both in the water column and particularly at the bottom of the lake or pond where the water

meets the sediment. When the hypolimnetic oxygen concentration is depleted to less than 1 mg/L, the phosphorus that is normally bound up in the sediment may be re-released into the water column, a process referred to as *internal phosphorus loading*.

Lower hypolimnetic oxygen levels are a sign of the pond's **aging** health. This year the DES biologist collected the dissolved oxygen profile in **July**. We recommend that the annual biologist visit for the **2009** sampling year be scheduled during **August** so that we can determine if oxygen is depleted in the hypolimnion **later** in the sampling year.

> Table 11: Turbidity

Table 11 in Appendix B lists the current year and historical data for in-lake and tributary turbidity. Turbidity in the water is caused by suspended matter, such as clay, silt, and algae. Water clarity is strongly influenced by turbidity. Please refer to the "Other Monitoring Parameters" section of this report for a more detailed explanation.

The turbidity in **Gardner Cove Inlet** sample was *elevated* (3.2 NTUs) on the **June** sampling event. The turbidity in **Varney Brook** was *elevated* (5.85 NTUs) on the **July** sampling event. This suggests that the stream bottom may have been disturbed while sampling or that erosion is occurring in this area of the watershed. When the stream bottom is disturbed, sediment, which typically contains attached phosphorus, is released into the water column. When collecting tributaty samples please be sure to sample where the stream is flowing and where the stream is deep enough to collect a "clean" sample free from debris and sediment.

If you suspect that erosion is occurring in this area of the watershed, we recommend that your monitoring group conduct a stream survey and rain event sampling along this tributary. This additional sampling may allow us to determine what is causing the *elevated* levels of turbidity.

For a detailed explanation on how to conduct rain event sampling and stream surveys, please refer to the 2002 VLAP Annual Report special topic article, which is posted on the VLAP website at http://www.des.nh.gov/organization/divisions/water/wmb/vlap/categories/publications.htm, or contact the VLAP Coordinator.

> Table 12: Bacteria (E.coli)

Table 12 in Appendix B lists the current year and historical data for bacteria (*E.coli*) testing. *E. coli* is a normal bacterium found in the large intestine of humans and other warm-blooded animals. *E.coli* is used as an indicator organism because it is easily cultured and its presence in the water, in defined amounts, indicates that sewage **may**

be present. If sewage is present in the water, potentially harmful disease-causing organisms **may** also be present.

Bacteria sampling was not conducted this year. If residents are concerned about sources of bacteria such as failing septic systems, animal waste, or waterfowl waste, it is best to conduct *E. coli* testing when the water table is high, when beach use is heavy, or immediately after rain events.

> Table 13: Chloride

Table 13 in Appendix B lists the current year and the historical data for chloride sampling. The chloride ion (Cl-) is found naturally in some surfacewaters and groundwaters and in high concentrations in seawater. Research has shown that elevated chloride levels can be toxic to freshwater aquatic life. In order to protect freshwater aquatic life in New Hampshire, the state has adopted **acute and chronic** chloride criteria of **860 and 230 mg/L** respectively. The chloride content in New Hampshire lakes is naturally low, generally less than 2 mg/L in surface waters located in remote areas away from habitation. Higher values are generally associated with salted highways and, to a lesser extent, with septic inputs. Please refer to the "Chemical Monitoring Parameters" section of this report for a more detailed explanation.

The **epilimnion** was sampled for chloride during the **July** sampling event. The result was **17 mg/L**, which is **much less than** the state acute and chronic chloride criteria. However, this concentration is **greater than** what we would normally expect to measure in undisturbed New Hampshire surface waters.

Austin Brook was sampled for chloride on the **4/30/2008** sampling event. The result was **29 mg/L**.

Bertrand Brook was sampled for chloride on the **4/9/2008**, **4/30/2008**, **7/29/2008**, **and 9/30/2008** sampling events. The results were **13**, **13**, **34** and **11** mg/L.

Bertrand Brook Permanent Upstream was sampled for chloride on the 4/9/2008 sampling event. The result was < 5 mg/L.

Bertrand Brook Seasonal Upstream was sampled for chloride on the 4/9/2008 and 4/30/2008 sampling events. The results were 33 and 20 mg/L.

Gardner Cove Inlet was sampled for chloride on the 4/30/2008, 7/29/2008 and 9/30/2008 sampling events. The results were 22, 52 and 21 mg/L.

Varney Brook was sampled for chloride on the 4/30/2008, 7/29/2008 and 9/30/2008 sampling events. The results were < 5 mg/L.

All tributary results are *much less than* the state acute and chronic chloride criteria.

However, we recommend that your monitoring group continue to conduct chloride sampling in the epilimnion at the deep spot and tributaries, particularly in the spring during snow-melt and rain events during the summer. This will establish a baseline of data that will assist your monitoring group and DES to determine lake quality trends in the future.

Please note that chloride analyses can be run free of charge at the DES Limnology Center. Please contact the VLAP Coordinator if you are interested in chloride monitoring. In addition, it is best to conduct chloride sampling in the spring as the snow is melting and during rain events.

Table 14: Current Year Biological and Chemical Raw Data Table 14 in Appendix B lists the most current sampling year results. Since the maximum, minimum, and annual mean values for each parameter are not shown on this table, this table displays the current year "raw," meaning unprocessed, data. The results are sorted by station, depth, and then parameter.

> Table 15: Station Table

As of the spring of 2004, all historical and current year VLAP data are included in the DES Environmental Monitoring Database (EMD). To facilitate the transfer of VLAP data into the EMD, a new station identification system had to be developed. While volunteer monitoring groups can still use the sampling station names that they have used in the past and are most familiar with, an EMD station name also exists for each VLAP sampling location. Table 15 in Appendix B identifies what EMD station name corresponds to the station names you have used in the past and will continue to use in the future.

DATA QUALITY ASSURANCE AND CONTROL

Annual Assessment Audit:

During the annual visit to your pond, the biologist conducted a sampling procedures assessment audit for your monitoring group. Specifically, the biologist observed the performance of your monitoring group and

completed an assessment audit sheet to document the volunteer monitors' ability to follow the proper field sampling procedures, as outlined in the VLAP Monitor's Field Manual. This assessment is used to identify any aspects of sample collection in which volunteer monitors failed to follow proper procedures, and also provides an opportunity for the biologist to retrain the volunteer monitors as necessary. This will ultimately ensure samples that the volunteer monitors collect are truly representative of actual lake and tributary conditions.

Overall, your monitoring group did an *excellent* job collecting samples on the annual biologist visit this year! Specifically, the members of your monitoring group followed the proper field sampling procedures and there was no need for the biologist to provide additional training. Keep up the good work!

Sample Receipt Checklist:

Each time your monitoring group dropped off samples at the laboratory this summer, the laboratory staff completed a sample receipt checklist to assess and document if your group followed proper sampling techniques when collecting the samples. The purpose of the sample receipt checklist is to minimize, and hopefully eliminate, improper sampling techniques.

Overall, the sample receipt checklist showed that your monitoring group did an *excellent* job when collecting samples and submitting them to the laboratory this year! Specifically, the members of your monitoring group followed the proper field sampling procedures and there was no need for the laboratory staff to contact your group with questions, and no samples were rejected for analysis.

USEFUL RESOURCES

Best Management Practices to Control Nonpoint Source Pollution: A Guide for Citizens and Town Officials, DES Booklet WD-03-42, (603) 271-2975 or

www.des.nh.gov/organization/commissioner/pip/publications/wd/docu ments/wd-03-42.pdf.

Erosion Control for Construction in the Protected Shoreland Buffer Zone, DES fact sheet WD-SP-1, (603) 271-2975 or www.des.nh.gov/organization/commissioner/pip/factsheets/sp/documents/sp-1.pdf.

Impacts of Development Upon Stormwater Runoff, DES fact sheet WD-WQE-7, (603) 271-2975 or

www.des.nh.gov/organization/commissioner/pip/factsheets/aot/documents/wqe-7.pdf.

Lake Protection Tips: Some Do's and Don'ts for Maintaining Healthy Lakes, DES fact sheet WD-BB-9, (603) 271-2975 or www.des.nh.gov/organization/commissioner/pip/factsheets/bb/docume nts/bb-9.pdf.

Proper Lawn Care In the Protected Shoreland, The Comprehensive Shoreland Protection Act, DES fact sheet WD-SP-2, (603) 271-2975 or www.des.nh.gov/organization/commissioner/pip/factsheets/sp/documents/sp-2.pdf.

Road Salt and Water Quality, DES fact sheet WD-WMB-4, (603) 271-2975 or

www.des.nh.gov/organization/commissioner/pip/factsheets/wmb/documents/wmb-4.pdf.

Shorelands Under the Jurisdiction of the Comprehensive Shoreland Protection Act, DES fact sheet SP-4, (603) 271-2975 or www.des.nh.gov/organization/commissioner/pip/factsheets/sp/documents/sp-4.pdf.

Weed Watchers: An Association to Halt the Spread of Exotic Aquatic Plants, DES fact sheet WD-BB-4, (603) 271-2975 or www.des.nh.gov/organization/commissioner/pip/factsheets/bb/documents/bb-4.pdf.

Watershed Districts and Ordinances, DES fact sheet WD-WMB-16, (603) 271-2975 or

www.des.nh.gov/organization/commissioner/pip/factsheets/wmb/documents/wmb-16.pdf.